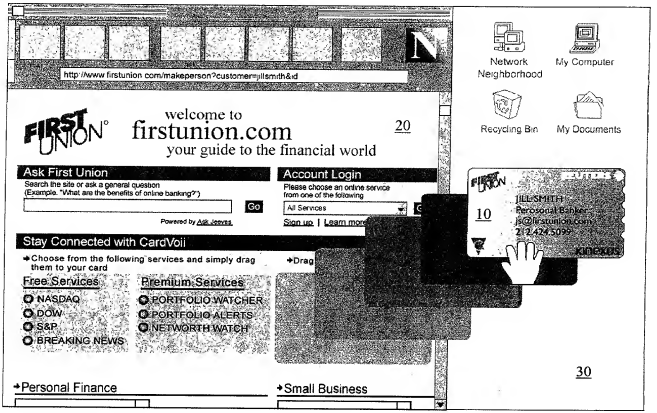

http://www.firstunion.com/makeperson?customer=jillsmith&id
FIRST UNION
welcome to
firstunion.com
your guide to the financial world
20
Ask First Union
Search the site or ask a general question
(Example: "What are the benefits of online banking?")
Go
Powered by Ask Jeeves
Account Login
Please choose an online service from one of the following
All Services
Sign up | Learn more
Stay Connected with CardVoji
Choose from the following services and simply drag them to your card
Drag
Free Services
NASDAQ
DOW
S&P
BREAKING NEWS
Premium Services
PORTFOLIO WATCHER
PORTFOLIO ALERTS
NETWORTH WATCH
Personal Finance
Small Business
Network Neighborhood
My Computer
Recycling Bin
My Documents
JILL SMITH
Personal Banker
jill@firstunion.com
212.424.5099
10
30

FIG. 1

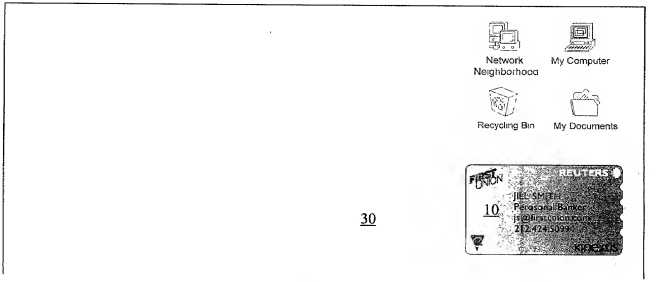

Network Neighborhood
My Computer
Recycling Bin
My Documents
REUTERS
JILL SMITH
Personal Banker
212.424.5099
10
30

FIG. 2

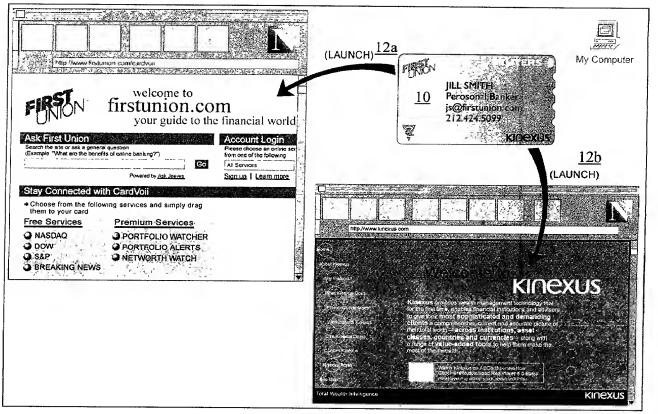

(LAUNCH) 12a
My Computer
FIRST UNION
welcome to
firstunion.com
your guide to the financial world
Ask First Union
Account Login
Stay Connected with CardVoil
Free Services
NASDAQ
DOW
S&P
BREAKING NEWS
Premium Services
PORTFOLIO WATCHER
PORTFOLIO ALERTS
NETWORTH WATCH
10
JILL SMITH
Perosonal Banker
212.424.5099
kinexus
12b
(LAUNCH)
kinexus

FIG. 3

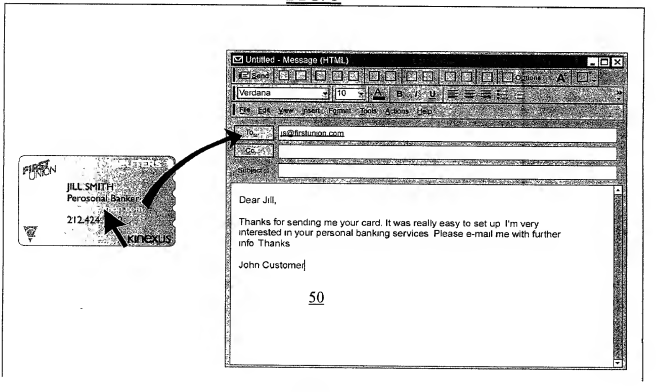

Untitled - Message (HTML)
Send
Verdana
To...
Cc...
Subject:
Dear Jill,
Thanks for sending me your card. It was really easy to set up. I'm very interested in your personal banking services. Please e-mail me with further info. Thanks
John Customer
50
FIRST UNION
JILL SMITH
Perosonal Banker
212.424.
kinexus

FIG. 4

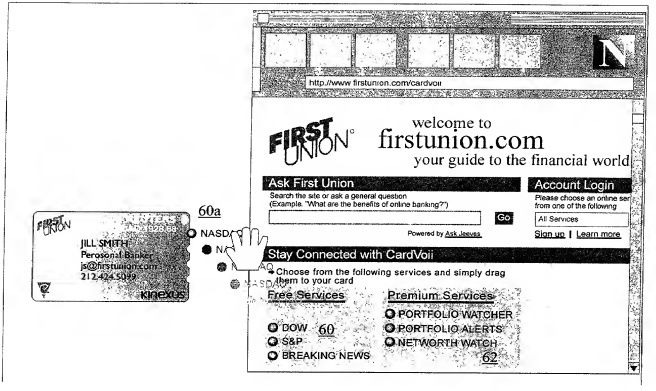

http://www.firstunion.com/cardvoii
welcome to
firstunion.com
your guide to the financial world
Ask First Union
Search the site or ask a general question
(Example, "What are the benefits of online banking?")
Go
Powered by Ask Jeeves
Account Login
Please choose an online ser
from one of the following
All Services
Sign up | Learn more
Stay Connected with CardVoii
Choose from the following services and simply drag
them to your card
Free Services
DOW 60
S&P
BREAKING NEWS
Premium Services
PORTFOLIO WATCHER
PORTFOLIO ALERTS
NETWORTH WATCH
62
60a
JILL SMITH
Personal Banker
212.424.5099
kinexus

FIG. 5

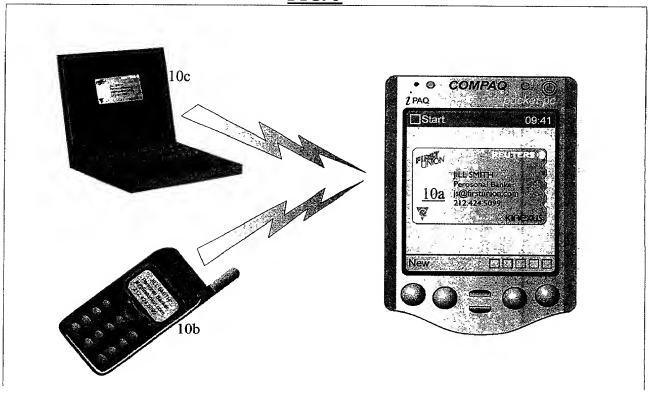

10c
10b
COMPAQ
7 PAQ
Start
09:41
JILL SMITH
Personal Banker
212.424.5099
10a
kinexus
New

FIG. 6

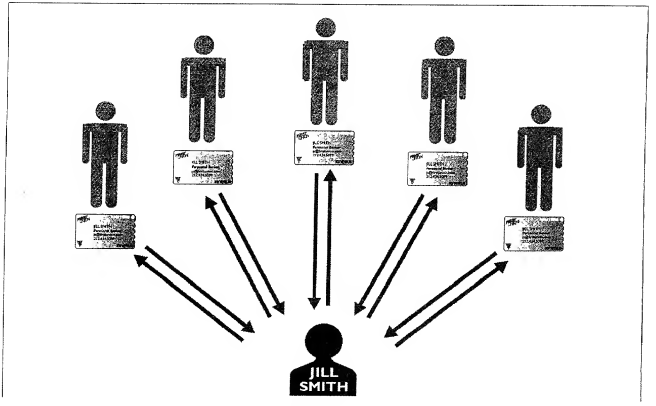


FIG. 7

20050515125950

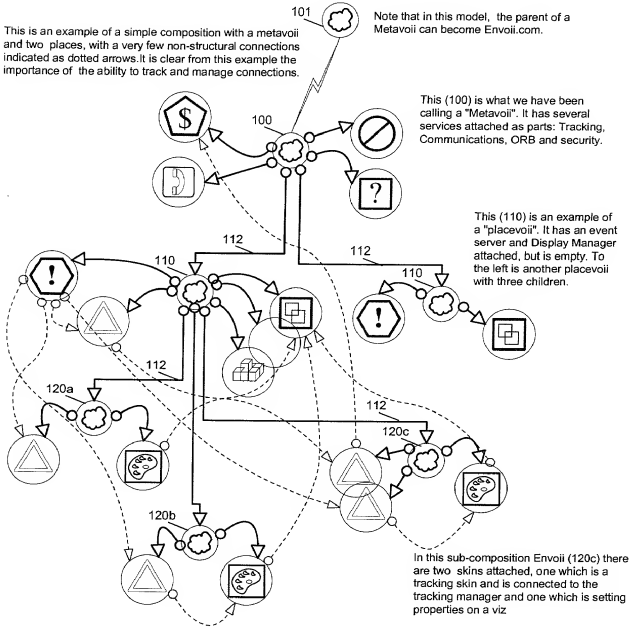
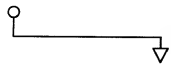
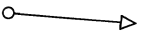

101
Note that in this model, the parent of a Metavoii can become Envoii.com.
This is an example of a simple composition with a metavoii and two places, with a very few non-structural connections indicated as dotted arrows.It is clear from this example the importance of the ability to track and manage connections.
100
This (100) is what we have been calling a "Metavoii". It has several services attached as parts: Tracking, Communications, ORB and security.
112
110
112
110
This (110) is an example of a "placevoii". It has an event server and Display Manager attached, but is empty. To the left is another placevoii with three children.
112
120a
112
120c
120b
In this sub-composition Envoii (120c) there are two skins attached, one which is a tracking skin and is connected to the tracking manager and one which is setting properties on a viz

FIG. 8

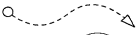
These are Envoiis (or "Enodes"). As an instance of a class, it provides generic graph interface. The connection points are representative of open set of "ports" which enable connections to other enodes.



This is a "Kid" connection, which is a specialization of a "Part" connection. It is the primary glue which is used by designers in building compositions. It effectively hel implement a tree-hierarchy as in the current system.



This is a "Part" connection. Part connectiions are structural, and enforce a part/part-c protocol.



This is a representative dynamic connection. Some such connections may be transient, and others not.

This is a "skin", and it bears a part-of relationship to an envoy.

This is a "Viz" and it bears a part-of relationship to an envoy.

This is a "DisplayManager". It is a part of an envoy which provides a rendering service.

This is an "Event Service".

FIG. 9

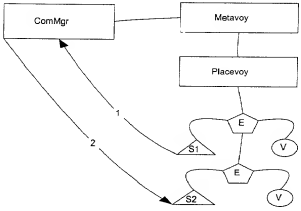

ComMgr
Metavoy
Placevoy
E
V
S1
S2
1
2

FIG. 10

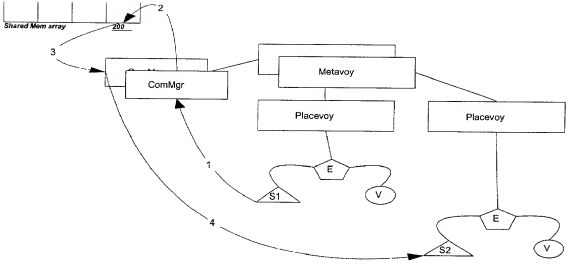

Shared Mem array
200
2
3
ComMgr
Metavoy
Placevoy
Placevoy
E
V
S1
S2
1
4

FIG. 11

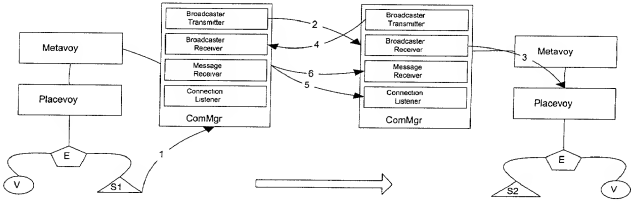


FIG. 12

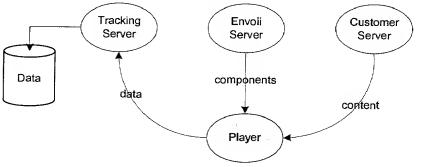


FIG. 13

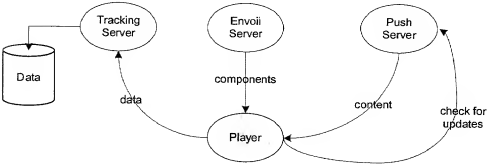


FIG. 14

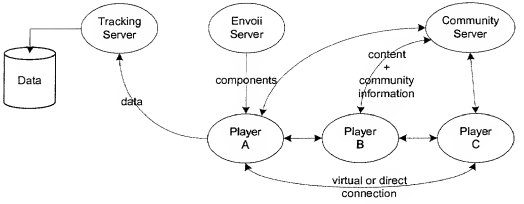


FIG. 15

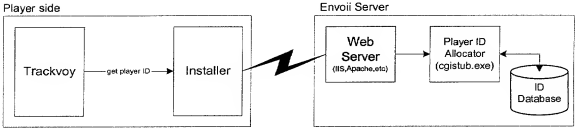


FIG. 16

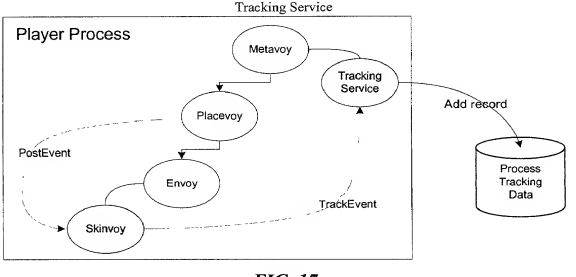


FIG. 17

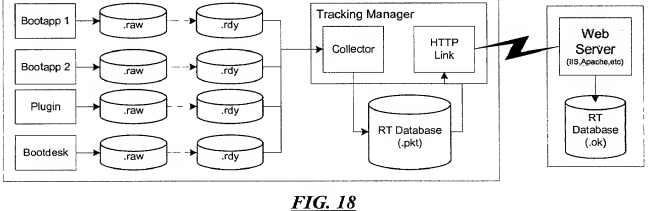


FIG. 18

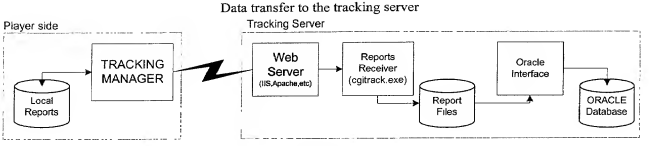


FIG. 19

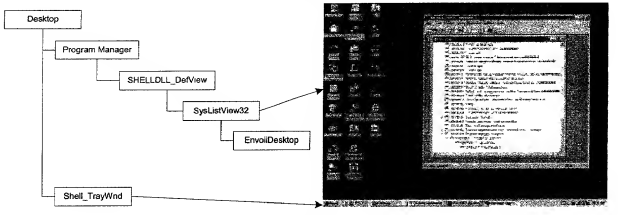


FIG. 20

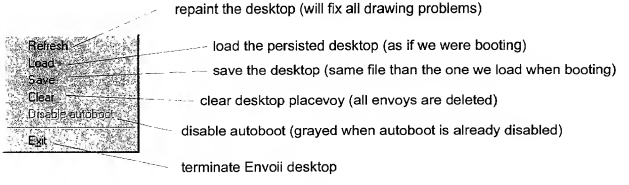


FIG. 21

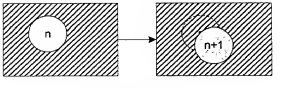


FIG. 22

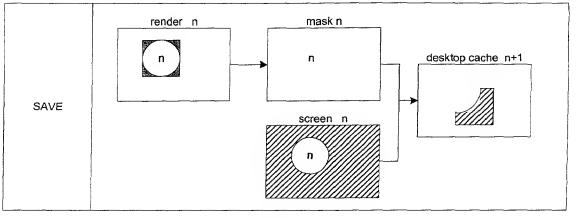


FIG. 23

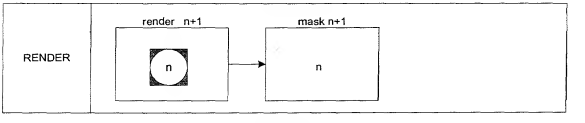


FIG. 24

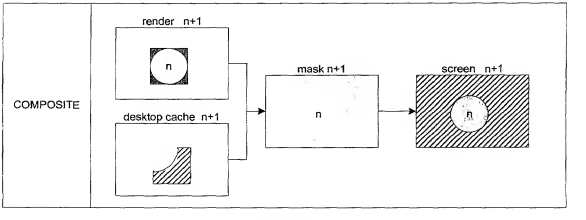


FIG. 25

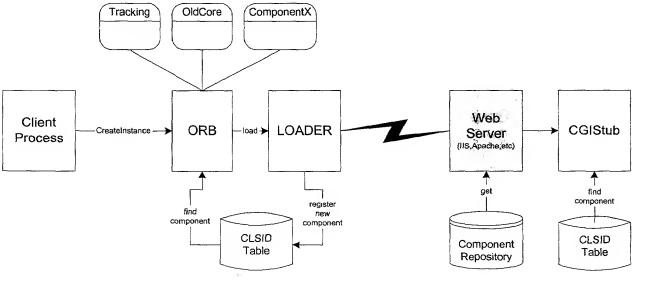


FIG. 26

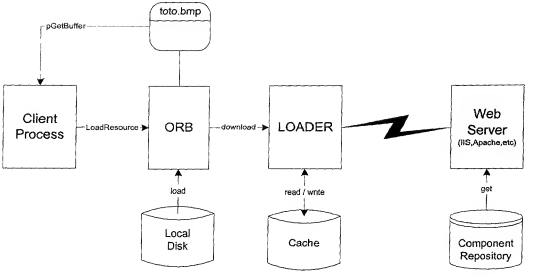


FIG. 27

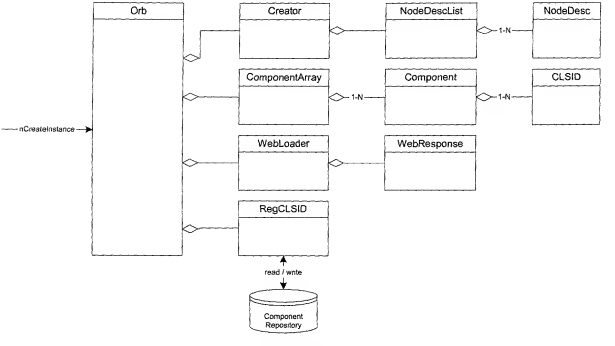


FIG. 28

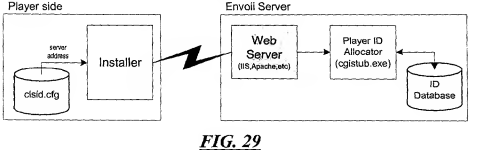


FIG. 29

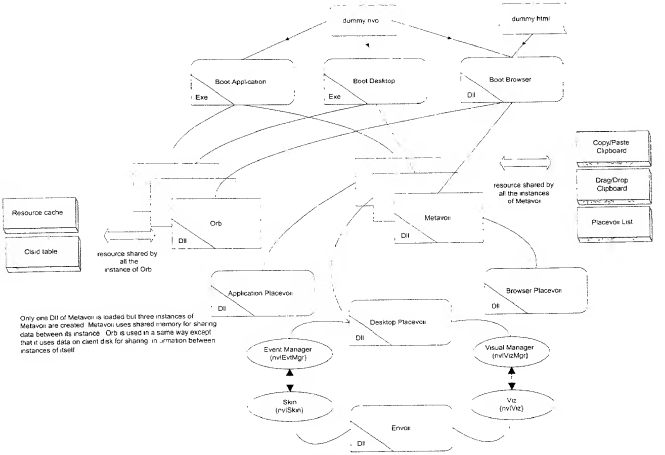

dummy nvo
dummy html
Boot Application
Exe
Boot Desktop
Exe
Boot Browser
Dll
Copy/Paste Clipboard
Drag/Drop Clipboard
Placevoi List
resource shared by all the instances of Metavoi
Resource cache
Clsid table
Orb
Dll
resource shared by all the instance of Orb
Metavoi
Dll
Application Placevoi
Dll
Browser Placevoi
Dll
Desktop Placevoi
Dll
Only one Dll of Metavoi is loaded but three instances of Metavoi are created. Metavoi uses shared memory for sharing data between its instance. Orb is used in a same way except that it uses data on client dss for sharing in...rmation between instances of itself
Event Manager (nvlEvtMgr)
Visual Manager (nvlVizMgr)
Skin (nvlSkin)
Viz (nvlViz)
Envoi
Dll

FIG. 3D

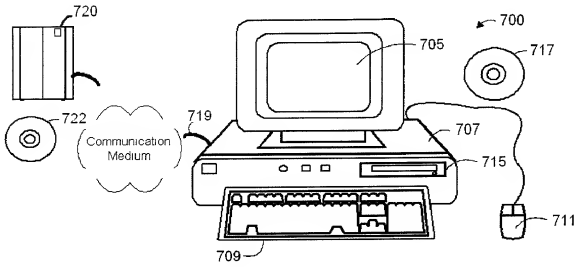


FIG. 31